AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (Currently amended) A method for scheduling processes within an
2	operating system based upon virtual server identifiers, wherein the operating
3	system supports multiple virtual servers that operate within separate virtual
4	environments on a single computing platform, the method comprising:
5	the operating system detecting an event that causes a scheduling priority
6	for a process to be updated;
7	the operating system looking up a virtual server identifier for the process,
8 8	wherein the virtual server identifier specifies a virtual server and an associated
9 ·	virtual environment that the process operates within;
10	the operating system using the virtual server identifier to look up a
11	scheduling priority associated with the virtual server; and
12	the operating system calculating an updated scheduling priority for the
13	process based upon the scheduling priority associated with the virtual server:
14	wherein calculating the updated scheduling priority involves calculating
15	the updated scheduling priority based upon:
16	a value, E, stored within a priority-related timer that keeps
17	track of execution time for the process,
18	a system priority, Sp, associated with the process, and
19	the scheduling priority, M, associated with the virtual
20	server; and
	E.

	wherein calculating the updated scheduling priority, P, involves	
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22	calculating $P = S_P + S(E/M)$, wherein S is a tunable constant value.	
1	2. (Canceled).	
1	3. (Canceled).	
1	4. (Original) The method of claim 1, wherein the method further	
2	comprises:	
3	receiving a command to adjust the scheduling priority associated with the	
4	virtual server;	
5	if the command is received from an authorized entity, adjusting the	
6	scheduling priority associated with the virtual server so that the scheduling	
7	priorities of all processes associated with the virtual server are modified.	
1	5. (Original) The method of claim 1, wherein the method further	
2	comprises charging a fee for hosting the virtual server, wherein the fee is based	
3	upon the scheduling priority associated with the virtual server.	
1	6. (Original) The method of claim 1, wherein detecting the event that	ιt
2	causes the scheduling priority for the process to be updated involves detecting on	
3	of:	
4	the process entering a sleep state;	
5	the process waking up from the sleep state; and	
6	a priority-related timer associated with the process reaching a maximum	
7	value.	
,	varue.	

2	server identifier for the process involves looking up the virtual server identifier		
3	within a process structure maintained by the operating system for the process.		
1	8. (Currently amended) A computer-readable storage medium storing		
2	instructions that when executed by a computer cause the computer to perform a		
3	method for scheduling processes within an operating system based upon virtual		
4	server identifiers, wherein the operating system supports multiple virtual servers		
5	that operate within separate virtual environments on a single computing platform,		
6	the method comprising:		
7	the operating system detecting an event that causes a scheduling priority		
8	for a process to be updated;		
9	the operating system looking up a virtual server identifier for the process,		
10	wherein the virtual server identifier specifies a virtual server and an associated		
11	virtual environment that the process operates within;		
12	the operating system using the virtual server identifier to look up a		
13	scheduling priority associated with the virtual server; and		
14	the operating system calculating an updated scheduling priority for the		
15	process based upon the scheduling priority associated with the virtual server:		
16	wherein calculating the updated scheduling priority involves calculating		
17	the updated scheduling priority based upon:		
18	a value, E, stored within a priority-related timer that keeps		
19	track of execution time for the process.		
20	a system priority, S_P , associated with the process, and		
21	the scheduling priority, M, associated with the virtual		
22	server: and		
23	wherein calculating the updated scheduling priority, P , involves		
24	calculating $P = S_P + S(E/M)$, wherein S is a tunable constant value.		

(Original) The method of claim 1, wherein looking up the virtual

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1	9.	(Canceled).
1	10.	(Canceled).
1	11.	(Original) The computer-readable storage medium of claim 8,
2	wherein the n	nethod further comprises:
3	receiv	ing a command to adjust the scheduling priority associated with the
4	virtual server	;
5	if the	command is received from an authorized entity, adjusting the
6	scheduling pr	iority associated with the virtual server so that the scheduling
7	priorities of a	Il processes associated with the virtual server are modified.
1	12.	(Original) The computer-readable storage medium of claim 8,
2	wherein the r	nethod further comprises charging a fee for hosting the virtual server,
3	wherein the f	ee is based upon the scheduling priority associated with the virtual
4	server.	
1	13.	(Original) The computer-readable storage medium of claim 8,
2	wherein dete	cting the event that causes the scheduling priority for the process to
3	be updated in	volves detecting one of:
4	the pr	rocess entering a sleep state;

1 14. (Original) The computer-readable storage medium of claim 8, 2 wherein looking up the virtual server identifier for the process involves looking up

the process waking up from the sleep state; and

a priority-related timer associated with the process reaching a maximum

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value.

1	15. (Currently amended) An apparatus that schedules processes within
2	an operating system based upon virtual server identifiers, wherein the operating
3	system supports multiple virtual servers that operate within separate virtual
4	environments on a single computing platform, the apparatus comprising:
5	a detection mechanism in the operating system that is configured to detect
6	an event that causes a scheduling priority for a process to be updated;
7	a lookup mechanism in the operating system that is configured to look up
8	a virtual server identifier for the process, wherein the virtual server identifier
9	specifies a virtual server and an associated virtual environment that the process
10	operates within;
11	wherein the lookup mechanism is additionally configured to use the virtua
12	server identifier to look up a scheduling priority associated with the virtual server
13	and
14	a calculating mechanism in the operating system that is configured to
15	calculate an updated scheduling priority for the process based upon the scheduling
16	priority associated with the virtual server;
17	wherein the calculating mechanism is configured to calculate the updated
18	scheduling priority based upon:
19	a value, E, stored within a priority-related timer that keeps
20	track of execution time for the process.
21	a system priority, S_P , associated with the process, and
22	the scheduling priority, M, associated with the virtual
23	server; and

the virtual server identifier within a process structure maintained by the operating

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system for the process.

24	wherein the calculating mechanism is configured to calculate the updated
25	scheduling priority, P, by calculating $P = S_P + S(E/M)$, wherein S is a tunable
26	constant value.
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1	16. (Canceled).
1	17. (Canceled).
1	18. (Original) The apparatus of claim 15, further comprising a priority
2	adjustment mechanism that is configured to:
3	receive a command to adjust the scheduling priority associated with the
4	virtual server; and to
5	adjust the scheduling priority associated with the virtual server so that the
6	scheduling priorities of all processes associated with the virtual server are
7	modified, if the command is received from an authorized entity.
1	19. (Original) The apparatus of claim 15, further comprising a fee
2	calculation mechanism that is configured to calculate a fee for hosting the virtual
3	server based upon the scheduling priority associated with the virtual server.
1	20. (Original) The apparatus of claim 15, wherein the detection
2	mechanism is configured to detect one of:
3	the process entering a sleep state;
4	the process waking up from the sleep state; and
5	a priority-related timer associated with the process reaching a maximum
6	value.

- 1 21. (Original) The apparatus of claim 15, wherein the lookup
- 2 mechanism is configured to look up the virtual server identifier for the process by
- 3 looking up the virtual server identifier within a process structure maintained by
- 4 the operating system for the process.